

Claims

1. Method for displaying navigational information for a vehicle,
wherein the navigational information for a vehicle is displayed in
the form of a virtual pilot vehicle superimposed on an image of the
vehicle environment and wherein a display mode and/or a position
and/or an orientation and/or size of the displayed virtual pilot
vehicle is/are determined by a route or action recommendation and/or
a speed and/or reference points for a recommended route and/or a
position and orientation of the vehicle and/or a position and
orientation of a camera for recording the vehicle environment and/or
an eye position and a line of sight of the driver.
2. Method according to Claim 1,
wherein a route or action recommendation to "turn right" or to "turn
left" is represented by a virtual pilot vehicle having a
correspondingly flashing indicator.
3. Method according to Claim 1 or Claim 2,
wherein a route or action recommendation to "turn left onto a
certain road" or to "turn right onto a certain road" is represented
by a correspondingly turning virtual pilot vehicle.
4. Method according to any one of Claims 1 to 3,
wherein a route or action recommendation to "drive carefully because
of a safety hazard" is represented by a virtual pilot vehicle with
activated hazard warning flashers.
5. Method according to Claim 4,
wherein further information is additionally displayed via text or
pictogram on a panel on the virtual pilot vehicle.
6. Method according to any one of the preceding claims,
wherein a route or action recommendation to "reduce speed" is
displayed by means of brake lights on the virtual pilot vehicle
flashing on if the driver drives faster than a maximum speed
specified for a location or situation.

7. Method according to any one of the preceding Claims,
wherein a route or action recommendation to "keep minimum distance
from the vehicle ahead in accordance with the current driving speed"
is displayed by means of a virtual pilot vehicle being positioned on
5 the image of the road such that it appears to be proceeding in front
of the driver at precisely the minimum distance currently required,
while driving too close to the vehicle in front is shown by a real
vehicle being located in the image between the driver and the
virtual vehicle.
- 10 8. Method according to any one of the preceding Claims,
wherein a pilot position (L) and a pilot orientation (O) are
determined according to reference points (R) for a recommended route
and according to the current position (P) and speed of the vehicle.
- 15 9. Method according to any one of the preceding Claims,
wherein, a model of the pilot vehicle in three-dimensional space is
created according to the pilot position and pilot orientation and
wherein a two-dimensional representation which is superimposed on
20 the image of the vehicle environment perceived by the driver is
computed from this model.
10. Device for displaying navigational information for a vehicle,
wherein an apparatus for superimposing navigational information for
25 a vehicle in the form of a virtual pilot vehicle on an image of the
vehicle environment exists such that a display mode and/or a
position and/or an orientation and/or size of the virtual pilot
vehicle are determined in accordance with a route or action
recommendation and/or the speed and/or reference points for a
30 recommended route and/or a position of the vehicle and/or an
orientation of the vehicle and/or a position of the camera for
recording the vehicle environment and/or an orientation of the
camera for recording the vehicle environment.